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=> s serine (3w) racemase
L1 357 SERINE (3W) RACEMASE

=> s 11 (5a)(human or murine or mouse or rat or mammalian)
4 FILES SEARCHED...
6 FILES SEARCHED...
L2 48 L1 (5A)(HUMAN OR MURINE OR MOUSE OR RAT OR MAMMALIAN)

=> dup rem 12
PROCESSING COMPLETED FOR L2
L3 15 DUP REM L2 (33 DUPLICATES REMOVED)

=> d 1-10

L3 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:438336 HCAPLUS
DN 139:144296
TI D-serine and serine racemase are present in the vertebrate retina and
contribute to the physiological activation of NMDA receptors
AU Stevens, Eric R.; Esguerra, Manuel; Kim, Paul M.; Newman, Eric A.; Snyder,
Solomon H.; Zahs, Kathleen R.; Miller, Robert F.
CS Department of Neuroscience, University of Minnesota, Minneapolis, MN,
55455, USA
SO Proceedings of the National Academy of Sciences of the United States of
America (2003), 100(11), 6789-6794
CODEN: PNASA6; ISSN: 0027-8424
PB National Academy of Sciences
DT Journal
LA English
RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:810692 HCAPLUS
DN 140:3108
TI Spatiotemporal relationships among D-serine, serine racemase, and D-amino
acid oxidase during mouse postnatal development
AU Wang, Li-Zhen; Zhu, Xing-Zu
CS Department of Pharmacology, Institute of Materia Medica, Institutes for

Biological Sciences, Chinese Academy of Sciences, Shanghai, 200031, Peop. Rep. China

SO Acta Pharmacologica Sinica (2003), 24(10), 965-974
CODEN: APSCG5; ISSN: 1671-4083

PB Science Press

DT Journal

LA English

RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 15 HCPLUS COPYRIGHT 2004 ACS on STN
AN 2003:254664 HCPLUS
TI Topics. D- ***serine*** and ***serine*** ***racemase*** exist in ***mammalian*** brain
AU Yoshimura, Toru
CS Institute for Chemical Research, Kyoto University, Japan
SO Bitamin (2003), 77(3), 163-164
CODEN: BTMNA7; ISSN: 0006-386X
PB Nippon Bitamin Gakkai
DT Journal
LA Japanese

L3 ANSWER 4 OF 15 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 2003219534 EMBASE
TI Schizophrenia: Attention deficits and the NMDA hypothesis.
AU Lane H.-Y.; Lu T.-T.; Chang W.-H.
CS W.-H. Chang, Department of Psychiatry, Tzu Chi University, Chung Yang Road, Hualien, Taiwan, Province of China
SO Tzu Chi Medical Journal, (2003) 15/3 (141-148).
Refs: 93
ISSN: 1016-3190 CODEN: CYZAFG
CY Taiwan, Province of China
DT Journal; General Review
FS 005 General Pathology and Pathological Anatomy
032 Psychiatry
037 Drug Literature Index
038 Adverse Reactions Titles
LA English
SL English; Chinese

L3 ANSWER 5 OF 15 MEDLINE on STN DUPLICATE 1
AN 2003408324 MEDLINE
DN PubMed ID: 12946565
TI ***Rat*** cerebral ***serine*** ***racemase*** : amino acid deletion and truncation at carboxy terminus.
AU Konno Ryuichi
CS Department of Microbiology, Dokkyo University School of Medicine, Mibu, 321-0293 Tochigi, Japan.. konno@dokkyomed.ac.jp
SO Neuroscience Letters, (2003 Oct 2) 349 (2) 111-4.
Journal code: 7600130. ISSN: 0304-3940.
CY Ireland
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200310
ED Entered STN: 20030830
Last Updated on STN: 20031024
Entered Medline: 20031023

L3 ANSWER 6 OF 15 MEDLINE on STN DUPLICATE 2
AN 2003059525 MEDLINE
DN PubMed ID: 12560076
TI ***Mouse*** brain ***serine*** ***racemase*** catalyzes specific elimination of L-serine to pyruvate.
AU Strisovsky Kvido; Jiraskova Jana; Barinka Cyril; Majer Pavel; Rojas Camilo; Slusher Barbara S; Konvalinka Jan
CS Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic, Flemingovo n.2, Praha 6, 166 10, Czech Republic.. kvido.strisovsky@uochb.cas.cz
SO FEBS Letters, (2003 Jan 30) 535 (1-3) 44-8.
Journal code: 0155157. ISSN: 0014-5793.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals

EM 200303
 ED Entered STN: 20030207
 Last Updated on STN: 20030322
 Entered Medline: 20030321

L3 ANSWER 7 OF 15 MEDLINE on STN DUPLICATE 3
 AN 2003085161 MEDLINE
 DN PubMed ID: 12596860
 TI Gene cloning, purification, and characterization of 2,3-diaminopropionate ammonia-lyase from *Escherichia coli*.
 AU Uo Takuma; Yoshimura Tohru; Nishiyama Tozo; Esaki Nobuyoshi
 CS Institute for Chemical Research, Kyoto University, Uji, Kyoto 611-0011, Japan.
 SO Bioscience, biotechnology, and biochemistry, (2002 Dec) 66 (12) 2639-44.
 Journal code: 9205717. ISSN: 0916-8451.

CY Japan
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200308
 ED Entered STN: 20030225
 Last Updated on STN: 20030813
 Entered Medline: 20030812

L3 ANSWER 8 OF 15 MEDLINE on STN DUPLICATE 4
 AN 2003008845 MEDLINE
 DN PubMed ID: 12515328
 TI Allosteric regulation of ***mouse*** brain ***serine*** ***racemase***.
 AU Neidle Amos; Dunlop David S
 CS Division of Neurochemistry, Nathan Kline Institute for Psychiatric Research, Orangeburg, New York 10962, USA.
 SO Neurochemical research, (2002 Dec) 27 (12) 1719-24.
 Journal code: 7613461. ISSN: 0364-3190.

CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200303
 ED Entered STN: 20030108
 Last Updated on STN: 20030326
 Entered Medline: 20030325

L3 ANSWER 9 OF 15 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2002-00344 BIOTECHDS
 TI Novel polypeptide of the human pyridoxal phosphate dependent family useful in screening and detecting assays and for treatment, e.g. of epilepsy and Alzheimer's; vector expression in host cell for recombinant protein gene production useful in gene therapy and drug screening
 AU Meyers R A; Rudolph-Owen L A
 PA Millennium-Pharm.
 LO Cambridge, MA, USA.
 PI WO 2001060987 23 Aug 2001
 AI WO 2001-US5365 20 Feb 2001
 PRAI US 2000-183208 17 Feb 2000
 DT Patent
 LA English
 OS WPI: 2001-529909 [58]

L3 ANSWER 10 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 6
 AN 2001:748034 HCAPLUS
 DN 135:300497
 TI Cloning, sequence and drug screening use of ***human*** ***serine*** ***racemase***
 IN Connolly, Thomas; Liu, Yuan; Xia, Menghang
 PA Merck & Co., Inc., USA
 SO PCT Int. Appl., 43 pp.
 CODEN: PIXXD2
 DT Patent
 LA English

FAN.CNT 1	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	-----	-----	-----	-----
PI	WO 2001075144	A1	20011011	WO 2001-US10662	20010402
	W: CA, JP, US				

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
 PT, SE, TR
 EP 1272656 A1 20030108 EP 2001-924599 20010402
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI, CY, TR
 JP 2003529371 T2 20031007 JP 2001-573018 20010402
 US 2003212262 A1 20031113 US 2002-240800 20021003
 PRAI US 2000-194451P P 20000404
 WO 2001-US10662 W 20010402
 RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
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=> d 11-15

L3 ANSWER 11 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:731044 HCAPLUS
 DN 135:284084
 TI Cloning, sequencing and regulation of ***human*** ***serine***
 racemase
 IN Ramakrishnan, Shyam
 PA Bayer Aktiengesellschaft, Germany
 SO PCT Int. Appl., 66 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001073077	A2	20011004	WO 2001-EP3668	20010330
	WO 2001073077	A3	20021003		
		W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
		RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
	EP 1272646	A2	20030108	EP 2001-923705	20010330
		R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		
	US 2003175941	A1	20030918	US 2003-240466	20030512
PRAI	US 2000-193748P	P	20000331		
	US 2000-194249P	P	20000403		
	WO 2001-EP3668	W	20010330		

L3 ANSWER 12 OF 15 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2000-12656 BIOTECHDS
 TI ***Mammalian*** ***serine*** - ***racemase*** preparations,
 used to identify modulators which can be used to treat diseases
 associated with N-methyl-D-aspartate receptor overactivation, e.g.
 Alzheimer's disease;
 vector-mediated gene transfer and expression in host cell
 AU Snyder S H; Wolosker H; Sheth K; Masaaki T; Mothet J P; Brady Jr R O;
 Ferris C D
 PA Univ.Johns-Hopkins
 LO Baltimore, MD, USA.
 PI WO 2000043526 27 Jul 2000
 AI WO 2000-US938 18 Jan 2000
 PRAI US 1999-145953 28 Jul 1999; US 1999-116333 19 Jan 1999
 DT Patent
 LA English
 OS WPI: 2000-482915 [42]

L3 ANSWER 13 OF 15 MEDLINE on STN DUPLICATE 8
 AN 2001076984 MEDLINE
 DN PubMed ID: 11054547
 TI ***Human*** ***serine*** ***racemase*** : molecular cloning,
 genomic organization and functional analysis.
 AU De Miranda J; Santoro A; Engelender S; Wolosker H
 CS Departamento de Bioquimica Medica, Instituto de Ciencias Biomedicas, RJ
 21491-590, Rio de Janeiro, Brazil.
 SO Gene, (2000 Oct 3) 256 (1-2) 183-8.
 Journal code: 7706761. ISSN: 0378-1119.

CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS GENBANK-AF169974
EM 200101
ED Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20010111

L3 ANSWER 14 OF 15 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:108925 BIOSIS
DN PREV200100108925
TI ***Serine*** ***racemase*** knockout and transgenic ***mice***

AU Kim, P. M. [Reprint author]; Saiardi, A.; Snyder, S. H.
CS Johns Hopkins University, School of Medicine, Baltimore, MD, USA
SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract
No.-619.16, print.
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New
Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.
ISSN: 0190-5295.

DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 28 Feb 2001
Last Updated on STN: 15 Feb 2002

L3 ANSWER 15 OF 15 HCPLUS COPYRIGHT 2004 ACS on STN
AN 1999:765573 HCPLUS
DN 132:75231
TI Serine racemase: a glial enzyme synthesizing D-serine to regulate
glutamate-N-methyl-D-aspartate neurotransmission
AU Wolosker, Herman; Blackshaw, Seth; Snyder, Solomon H.
CS Departments of Neuroscience, Pharmacology and Molecular Sciences, and
Psychiatry, School of Medicine, The Johns Hopkins University, Baltimore,
MD, 21205, USA
SO Proceedings of the National Academy of Sciences of the United States of
America (1999), 96(23), 13409-13414
CODEN: PNASA6; ISSN: 0027-8424
PB National Academy of Sciences
DT Journal
LA English
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 15 ab

L3 ANSWER 15 OF 15 HCPLUS COPYRIGHT 2004 ACS on STN
AB Although D amino acids are prominent in bacteria, they generally are
thought not to occur in mammals. Recently, high levels of D-serine have
been found in mammalian brain where it activates glutamate/N-methyl-D-
aspartate receptors by interacting with the "glycine site" of the
receptor. Because amino acid racemases are thought to be restricted to
bacteria and insects, the origin of D-serine in mammals has been puzzling.
We now report cloning and expression of serine racemase, an enzyme
catalyzing the formation of D-serine from L-serine. Serine racemase is a
protein representing an addnl. family of pyridoxal-5' phosphate-dependent
enzymes in eukaryotes. The enzyme is enriched in rat brain where it
occurs in glial cells that possess high levels of D-serine in vivo.
Occurrence of serine racemase in the brain demonstrates the conservation
of D-amino acid metab. in mammals with implications for the regulation of
N-methyl-D-aspartate neurotransmission through glia-neuronal interactions.

=> dis his

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FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCPLUS,
NTIS, ESBIOSBASE, BIOTECHNO, WPIDS' ENTERED AT 19:55:17 ON 17 MAR 2004

L1 357 S SERINE (3W) RACEMASE
L2 48 S L1 (5A) (HUMAN OR MURINE OR MOUSE OR RAT OR MAMMALIAN)
L3 15 DUP REM L2 (33 DUPLICATES REMOVED)

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